



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

November 3<sup>rd</sup>, 2014

*Richard J. Simmers, Chief*  
Division of Oil and Gas Resources Management  
2045 Morse Road, Building F-2  
Columbus, OH 43229-6693  
Phone: (614) 265-6922; Fax: (614) 265-6910

Ms. Anna Miller, Ohio Coordinator  
U.S. EPA, Region 5  
77 West Jackson Blvd.  
Chicago, IL 60604-3590  
ATTN: 5WU-16J

Dear Ms. Miller:

Enclosed please find the reporting forms for all of Federal Fiscal Year 2014 that covers Class II and Class III wells in Ohio. Additionally, I have included the UIC well inventory and Final Technical Report.

If you have any questions regarding this matter, please feel free to contact me at (614) 265-6673.


Sincerely,

A blue ink signature of Andrew Adgate, consisting of a stylized 'A' followed by a series of loops and a final flourish.

Andrew Adgate, UIC Section  
UIC Section  
Ohio Department of Natural Resources  
Division of Oil and Gas Resources Management  
2045 Morse Road, F-2  
Columbus, Ohio 43229-6693

Enclosures

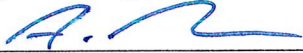
Cc: Bob Worstall, Deputy Chief  
File

 <div style="border: 1px dashed black; padding: 5px; text-align: center;"> <b>UIC Federal Reporting System</b>  <b>Part I: Permit Review and Issuance/</b>  <b>Wells In Area of Review</b> </div>					<b>I. Name and Address of Reporting Agency</b> Ohio Department of Natural Resources Division of Oil and Gas Resources Management 2045 Morse Road, F-2 Columbus, Ohio 43229-6693								
<b>II. Date</b> October 31, 2014			<b>III. State contact/phone</b> Andrew Adgate (614) 265-6673		<b>IV. Reporting period (month, year)</b> <table border="1" style="width: 100%;"> <tr> <td><b>FROM</b></td> <td><b>TO</b></td> </tr> <tr> <td>October 1, 2013</td> <td>09/30/14</td> </tr> </table>					<b>FROM</b>	<b>TO</b>	October 1, 2013	09/30/14
<b>FROM</b>	<b>TO</b>												
October 1, 2013	09/30/14												
<b>ITEM</b>					<b>Class and Type of Injection Wells</b>								
					<b>AD</b>	<b>II</b>			<b>III</b>	<b>IV</b>	<b>V</b>		
<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>											
<b>V. Permit Application</b>		<b>Number of Permit Applications Received</b>			2	19	1		7				
<b>VI. Permit Determination</b>	<b>Permit Issued</b>	<b>A</b>	<b># of Individual Permits Issued (one well)</b>	New wells	2	15	1		7				
				Existing wells	0	2	0		0				
		<b>B</b>	<b># of area permits issued (multiple wells)</b>	New well field	0	0	0		0				
				Existing field	0	0	0		0				
		<b>C</b>	<b># of wells in area permits</b>	New wells	0	0	0		0				
				Existing wells	0	0	0		0				
	<b>Permit not issued</b>	<b>D</b>	<b># of permits denied/ withdrawn (after complete technical review)</b>		0	0	0		0				
<b>Modification Issued</b>	<b>E</b>	<b># of Major Permit Modifications Approved</b>		0	6	0		0					
<b>VII. Permit File Review</b>	<b>Number of Class II Wells Reviewed</b>			Wells reviewed	460	231	128		52				
				Wells deficient	0	0	0		0				
<b>VIII. Area Of Review (AOR)</b>	<b>Wells Reviewed</b>	<b>A</b>	<b># of wells in Area of Review</b>	Abandoned Wells	0	67	0		6				
				Other wells	0	84	7		46				
	<b>Wells Identified For C/A</b>	<b>B</b>	<b># of wells identified for Corrective Action</b>	Abandoned Wells	0	0	0		0				
				Other wells	0	0	0		0				
	<b>Wells with C/A</b>	<b>C</b>	<b>1. # of wells in AOR w/ casing repaired/re-cemented C/A</b>		0	0	0		0				
			<b>2. # of active wells in AOR Plugged/Abandoned</b>		0	0	0		0				
			<b>3. # of abandoned wells in AOR re-plugged</b>		0	0	0		0				
			<b>4. # of wells in AOR with "other" corrective action</b>		0	0	0		0				
<b>IX. Remarks</b> * - Fluid level Monitoring and/or field monitoring													

**CERTIFICATION**

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature and Typed or Printed Name and Title of Person Completing Form



Andrew Adgate, UIC Administrator

10/31/2014



**UIC Federal Reporting System  
Part II: Compliance Evaluation  
Significant Noncompliance**

**I. Name and Address of Reporting Agency**

Ohio Department of Natural Resources  
Division of Oil and Gas Resources Management  
2045 Morse Road, F-2  
Columbus, Ohio 43229-6693

**II. Date**  
October 31, 2014

**III. State contact/phone**  
Andrew Adgate  
(614) 265-6673

**IV. Reporting period (month, year)**

FROM	TO
October 1, 2013	09/30/2014

ITEM				Class and Type of Injection Wells						
				AD	II			III	IV	V
					SWD 2D	ER 2R	HC 2H			
V.  Summary Of Significant Non- Compliance  (SNC)	Total Wells	A	Number of Wells with SNC Violations	7	28	5		0		
		B	1. # of unauthorized SNC violations	0	0	0		0		
			2. # of Mechanical Integrity SNC violations	7	21	3		0		
			3. # of Injection Pressure SNC violations	0	7	2		0		
	Total Violations		4. # of plugging and abandonment SNC violations	0	0	0		0		
			5. # of SNC violations of Formal Orders	0	0	0		0		
			6. # of Falsification SNC Violations	0	0	0		0		
		7. # of Other SNC Violations (Specify)	0	0	0		0			
	Total Wells	A	# of wells with Enforcement Actions	7	28	5		0		
	VI.  Summary Of Enforcement Against SNC	Total Enforcement Actions	B	1. # of notices of Violation	0	28	5		0	
2. # of Consent Agreements/Orders				0	0	0		0		
3. # of Administrative Orders				7	0	0		0		
4. # of Civil Referrals				0	0	0		0		
5. # of Criminal Referrals				0	0	0		0		
6. # of Well Shut-Ins				0	0	0		0		
7. # of Pipeline Severances				NA	NA	NA		NA		
8. # of other enforcement actions against SNC Violations (specify)				0	0	0		0		
VII. Summary of Compliance	# of wells in SNC Returned to Compliance	A. This Quarter		4	11	1		0		
		B. This Year		7	21	3		0		
VIII. Contamination	# of cases of Alleged Contamination of a USDW			Involuntary Well Closure						
IX. Well closure	Class IV/Endangering Class V Well Closures			Voluntary Well Closure						



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Signature and Typed or Printed Name and Title of Person Completing Form

Date

Phone number

 Andrew Adgate, UIC Administrator

10/31/2014

(614) 265-6673



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Date

Phone number

 Andrew Adgate, UIC Administrator

10/31/2014

(614) 265-6673



**UIC Federal Reporting System  
Part III: Inspections  
Mechanical Integrity Testing**

**I. Name and Address of  
Reporting Agency**

Ohio Department of Natural Resources  
Division of Oil and Gas Resources  
Management  
2045 Morse Road, F-2  
Columbus, Ohio 43229-6693

**II. Date**  
October 31, 2014

**II.State contact/phone**  
Andrew Adgate  
(614) 265-6673

**IV. Reporting period (month, year)**

FROM	TO
October 1, 2013	09/30/2014

ITEM				Class and Type of Injection Wells						
				AD	II			III	I V	V
					SWD 2D	ER 2R	H C 2 H			
	Total Wells	A	Number of Wells Inspected	460	1545	531		89		
V.  Summary of Inspections	Total Inspections	B	1. # of Mechanical Integrity Tested (MIT) Witnessed	14	39	6		8		
			2. # of Emergency Response or Complaint Response Inspections	0	0	0		0		
			3. # of Well Constructions Witnessed	2	22	0		6		
			4. # of Well Pluggings Witnessed	8	1	0		0		
			5. # of Routine/Periodic Inspections	436	1483	525		75		
VI.  Summary of Mechanical Integrity (MI)	Total Wells	A	Number of wells tested or evaluated for Mechanical Integrity	14	199	126		52		
		B	# of rule authorized wells tested or evaluated for M I	Passed 2-part test	NA	NA	NA	NA		
				Failed 2-part test	NA	NA	NA	NA		
	For Significant Leak	C	1. # of annulus pressure monitoring record evaluations	Well passed	NA	916	440	NA		
				Well failed	NA	0	0	NA		
			2. # of Casing/Tubing Pressure Tests	Well passed	2	39	4	6		
				Well failed	0	0	2	0		
			3. # of Monitoring Record Evaluations	Well passed	NA	199	126	52		
				Well failed	NA	0	0	0		
			4. # of other significant leak tests/evaluations (specify)	Well passed	12 <sup>+</sup>	0	0	0		
				Well failed	0 <sup>+</sup>	0	0	0		
	For Fluid Migration	D	1. # of cement record evaluations	Well passed	2	20	0	21		
				Well failed	0	0	0	0		
			2. # of temperature/noise log tests	Well passed	0	0	0	0		
				Well failed	0	0	0	0		
			3. # of Radioactive Tracer/Cement Bond Tests	Well passed	0	16	0	11		
				Well failed	0	0	0	0		
			4. # of other fluid migration tests /evaluations (specify)	Well passed	12 <sup>+</sup>	2**	0	2*		
				Well failed	0 <sup>+</sup>	0	0	0*		
VII.  Summary of Remedial Action	Total Wells	A	# of wells with remedial action	0	9	0		0		
	Total Remedial Actions	B	1. # of casing repaired/squeeze cement remedial actions	0	2	2		0		
			2. # of tubing/packer remedial actions	0	7	0		0		
			3. # of plugging/abandonment remedial actions	0	0	0		0		
			4. # of other remedial actions (specify)	0	0	0		0		

**IX. Remarks** \* - Freshwater -Brine Interface Class III MI test \*\* - Spinner Surveys <sup>+</sup> - Positive Displacement Test




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Signature and Typed or Printed Name and Title of Person Completing Form

Date

Telephone number

 Andrew Adgate, UIC Administrator

10/31/2014

(614) 265-6673


**UIC Federal Reporting System  
Part IV: Quarterly Exceptions**
**I. Reporting Period**
**From:**  
October 1, 2013

**To:**  
September 30, 2014

II.  Well Class and Type	III.  Name and Address of Owner/Operator  NONE	IV.  Well I.D. Number  (Permit Number)	V. Summary of Violations								VI. Summary of Enforcement								VII.  Date  Compliance  Achieved	
			Date of Violation	Mark "x" violation type							Date of Enforce ment	Mark "x" enforcement type								
				Unauthorized injection	Well Mechanical Integrity	Injection Pressure	Plugging & Abandonment	Formal Order	Falsification	Other (Specify)		Notice of Violation	Consent agreement	Administrative Code	Civil Referral	Criminal Referral	Well shut-in	Pipeline Severeance	Other (specify)	

**Certification**

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**Signature of Person Completing Form**
**Typed or Printed Name and Title**

Andrew Adgate, UIC Administrator

**Date**

October 31, 2014

**Telephone number**

(614) 265-6673

## **ANNULAR DISPOSAL WELLS**

**Federal Fiscal Year 2014 – October 1, 2013 to September 30, 2014**

**MITs Conducted = 14**

New Wells = 2                      Passed = 14   Failed = 0  
Existing wells = 12

**2<sup>nd</sup> Round MITs = 12**

Passed = 12  
Failed = 0

Did not test, so Annular Disposal Authorization Revoked = 8 wells

**Inspections:**   Revoked Annular Disposal Wells = 4  
                      New Well Permits Issued = 1  
                      Well Constructions witnessed = 2  
                      Mechanical Integrity Tests = 14  
                      Temporarily Abandoned Annular Disposal Well Inspections = 400  
                      Authorized well inspections = 0  
                      Routine inspections = 0

**Temporarily Abandoned Annular Disposal (TAAD) Wells:**

Total TAAD wells as of September 30, 2014 = 1957 wells

**Total TAAD wells removed from TAAD status since October 1, 1992 = 8,212 wells**

**Currently authorized Annular Disposal Wells as of March 31, 2014 = 78 wells**

# UIC WELL INVENTORY NUMBERS U.S. EPA FFY 2014

Type	Under Construction	Active	Temporarily Abandoned	Number of Sites	Total	Total Plugged/Abandoned IN FFY 2014
Class II ER	2 wells	126 wells	0	30	128 wells	1 wells
Class II SWD	32 wells	199 wells	0	182	231 wells	2 wells
Class II AD	3 wells	78 wells	1957 wells	NA	2035 wells	8 wells
Class III SMP	0	52 wells	0	4	52 wells	0 wells



## **FINAL TECHNICAL REPORT – FEDERAL FISCAL YEAR 2014**

For the Federal Fiscal Year (FFY) 2014, the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management, in most cases, met or exceeded the Year 2014 Performance Measures and Outputs. Permitting activity for conventional Class II, Class III, and Class II Annular Disposal wells continued to increase, in part, due to the Class IID activity associated with the Marcellus Shale fluid from Pennsylvania and West Virginia and the Utica-Point Pleasant shale development in Ohio. The Division issued 18 Class II and seven Class III permits during FFY 2014. UIC staff reviewed all permit applications internally and the Division's field staff witnessed the critical construction operations. During FFY 2014, the Division conducted 2625 compliance reviews and inspections on Ohio's Class II and Class III wells. The State continued to witness 100% of the mechanical integrity tests. In FFY 2013, Division personnel witnessed a total of 67 Class II and Class III mechanical integrity tests. All conventional Class II wells are required to continuously monitor the annulus pressure or perform monthly minitests to demonstrate mechanical integrity. Class II Annular Disposal and Class III wells require mechanical integrity tests every five years.

All conventional Class II wells are inspected approximately every 11 to 12 weeks. In FFY 2014, the Division issued 65 notices of violation and administrative orders for conventional Class II and Class II annular disposal wells. Seven of the administrative orders were for annular disposal revocation or for suspension of injection operations. All Class II mechanical integrity failures are considered Significant Non-Compliance (SNC), and these orders were a part of the Division's major enforcement activity in FFY 2014. The Division's field staff conducted inspections to ensure compliance with these administrative orders and any well in non-compliance was pursued with additional enforcement action.

In FFY 2014, the Division continued the data entry of all pertinent UIC Class II and Class III technical information into the RBDMS database system. All of the UIC field inspections are now entered directly into laptops, which are later downloaded into the main RBDMS database in Central Office. Hard copies are made for the paper files. The Division has initiated the enforcement database that is tied to RBDMS system, providing easy access to all UIC technical and enforcement data in one database system. The Division is now e-mailing the UIC Class II Monthly Injection Well inventory list and the monthly UIC Outstanding Notices of Violation and Administrative Orders to all of the field staff and regional offices. These lists are continually being maintained and updated by the UIC geologist. The Division continues to maintain all of the UIC files in the paper form in the UIC Services Section and has recently scanned all existing UIC files. Technical staff members maintained these files for reporting, compliance schedules, investigations, enforcement actions, and semi-annual reporting to US EPA Region V. The Division has been sending UIC data to the National UIC Database through the Exchange Node electronically on a quarterly basis.

UIC personnel were involved in informal public meetings and occasionally were called upon to testify at hearings or court cases in FFY 2014. The Division of Oil and Gas Resources Management continued to participate in national conferences and meetings held by the Ground Water Protection Council (GWPC) during FFY 2014. The Division continues to train the new field staff regarding UIC inspections, mechanical integrity testing, and the other Standard Operating Procedures developed for the UIC Program.